

What is claimed is:

**[c01]** 1. An interconnection enclosure comprising at least one housing wall separating an interior of the enclosure from an exterior of the enclosure, the housing wall having an opening therethrough, the enclosure comprising:

at least one connector port positioned within the opening of the housing wall and operable for receiving a preterminated optical connector from the interior of the enclosure; and

at least one preterminated optical connector received in the at least one connector port, the preterminated optical connector attached to an optical fiber that is optically connected to a distribution cable;

wherein the preterminated optical connector is adapted to be withdrawn from the enclosure without entering the enclosure.

**[c02]** 2. The interconnection enclosure of claim 1, further comprising a tether means within the interior of the enclosure operable for limiting an extension distance of the preterminated optical connector withdrawn from the enclosure.

**[c03]** 3. The interconnection enclosure of claim 2, further comprising a bend radius control means for maintaining a minimum bend radius of the optical fiber.

**[c04]** 4. The interconnection enclosure of claim 1, further comprising a sealing means operable for sealing the at least one connector port.

**[c05]** 5. The interconnection enclosure of claim 4, wherein the sealing means is an invertable rubber boot operable for providing a sealing function and a tether function.

**[c06]** 6. The interconnection enclosure of claim 1, wherein the connector port comprises a receptacle fixably attached to the housing wall, a removable receptacle cap positioned within the receptacle, a removable receptacle cap cover and a removable

adapter sleeve, wherein the adapter sleeve is removable from the connector port through the housing wall of the enclosure without entering the enclosure.

[c07] 7. The interconnection enclosure of claim 1, wherein the enclosure is operable for enclosing at least one of direct-terminated optical fibers and fusion-spliced optical fibers.

[c08] 8. The interconnection enclosure of claim 1, wherein the enclosure is factory-installed or field-installed.

[c09] 9. An interconnection enclosure, comprising:

an enclosure housing comprising two housing halves held together by a fastening means, the enclosure housing defining an end wall and defining at least one connector port opening through the end wall for receiving a preterminated optical connector, the enclosure housing further defining an opening for receiving a distribution cable extending therethrough; and

wherein the preterminated optical connector is adapted to be withdrawn from the enclosure without entering the enclosure.

[c10] 10. The interconnection enclosure of claim 9, further comprising a tether means within the enclosure operable for limiting an extension distance of the preterminated optical connector exterior of the enclosure.

[c11] 11. The interconnection enclosure of claim 10, further comprising a sealing means within the enclosure operable for sealing the at least one connector port.

[c12] 12. The interconnection enclosure of claim 11, wherein the sealing means is an invertable rubber boot operable for providing a sealing function and a tether function.

[c13] 13. The interconnection enclosure of claim 9, further comprising a bend radius control means for maintaining a minimum bend radius of preterminated optical fibers.

[c14] 14. The interconnection enclosure of claim 9, wherein the connector port comprises a receptacle fixably attached to the enclosure end wall, a removable receptacle cap within the receptacle, a removable receptacle cap cover and a removable adapter sleeve, wherein the adapter sleeve is removable from the receptacle from the exterior of the enclosure without entering the enclosure.

[c15] 15. The interconnection enclosure of claim 9, wherein the enclosure is factory-installed or field-installed.

[c16] 16. A preterminated fiber optic connection, comprising:

an access point located at a predetermined position on a distribution cable comprising a plurality of optical fibers;

at least one optical fiber of the distribution cable branched from the distribution cable at the access point;

a preterminated optical connector attached to the at least one optical fiber;

an enclosure forming a cavity therein and defining a passage for the distribution cable extending therethrough, the enclosure further defining at least one connector port opening through at least one end wall of the enclosure;

a tethering means; and

a bend radius control means;

wherein the preterminated optical connector is adapted to be withdrawn from the exterior of the enclosure without entering the enclosure.

[c17] 17. The preterminated connection of claim 16, further comprising a sealing means within the enclosure operable for sealing the at least one connector port.

[c18] 18. The preterminated connection of claim 17, wherein the sealing means is an invertable rubber boot.

[c19] 19. An interconnection enclosure, comprising:

at least one connector port operable for receiving an optical connector pair; and

a preterminated optical connector received in the at least one connector port; and

wherein the preterminated optical connector is adapted to be withdrawn from the exterior of the enclosure without entering the enclosure.